

13.1 Avance CS2 Planned Maintenance Checklist

Serial Number:	Date: (YY/MM/DD) / /
Hospital:	Performed by:
<input type="checkbox"/> 12 months <input type="checkbox"/> 24 month <input type="checkbox"/> 48 month <input type="checkbox"/> _____	

13.1.1 Parts Replacement

All parts should be replaced before performing the checks, tests, and calibrations.

Every twelve (12) months

- ☐ Replace the vaporizer port o-rings (Section 9.13.1)
(Kit Stock Number 1102-3016-000)

Every twenty-four (24) months

In addition to the 12-month requirements, replace the following parts every 24 months.

Refer to TRM - Section 6.3; perform the following:

- ☐ Replace the free breathing flapper valve (Stock Number 0211-1454-100).
- ☐ Replace the free breathing valve o-ring (Stock Number 1503-3208-000).

Every forty-eight (48) months

In addition to the 24-month requirements, replace the following parts every 48 months.

Refer to TRM - Section 9.28.2; perform the following:

- ☐ Replace the Display Unit battery (Stock Number 1009-5800-000).

Refer to TRM - Section 9.7.3; perform the following:

- ☐ Replace the system batteries* (Stock Number 1009-5682-000).

***Note:** Refer to the "Battery capacity test" in TRM - Section 6.10.

13.1.2 Test procedure outline

Perform the following steps every 12 months.
For details, refer to the following section.

- ☐ Visual Inspection Procedures
 - Machine Frame and External Connections
- ☐ Verify annunciators
- ☐ Pipeline and cylinder tests
 - Cross-Connect and High Pressure Leak test
 - O2 supply alarm test
- ☐ AGSS Inspection and Testing
 - Passive Internal Gas Scavenging, if equipped
 - Adjustable Active Gas Scavenging (AGSS), if equipped
 - Active Gas Scavenging (AGSS), if equipped
- ☐ Scavenger Positive Relief Functional Check
- ☐ ABS Inspection
 - Flow Sensor Module
 - Breathing Circuit Module/ O2 Sensor
 - Absorbent Canister
 - Bellows Assembly Inspection
 - Bellows Assembly Tests
 - Exhalation Valve Inspection
 - EZ Change and Condenser Inspection (if equipped)
 - ABS Assembly
- ☐ Ventilator
 - Free breathing valve maintenance (Every 24 Months)
- ☐ Ventilator Tests
 - View and/or download error logs
 - Perform the User Calibrations
 - Flow and pressure calibration
 - Circuit O2 cell calibration
 - MOPV pressure relief valve test
 - Pressure Limit Circuit test
 - Manifold P Span
 - Inspiratory Flow Valve Cal
 - Bleed Resistor Cal
 - Paw Span
 - Zero Gas Xducer
 - Zero the Mixer
- ☐ Display Diagnostics
 - Test LEDs
 - Test Speaker
 - Test Battery
 - Test Hard Keys
 - Test LCD
 - Calibrate Touch

- ☐ Machine Testing
 - Vaporizer Manifold Pressure relief test for machines with SCGO
 - Manifold Pressure relief test for machines with ACGO
- ☐ Mixer tests
 - Mixer outlet check valve leak test
 - Mixer flow verification
- ☐ Alternate O2 flowmeter tests
 - Functional Test
 - Flow Accuracy test
- ☐ Auxiliary O2 flowmeter tests
 - Functional Test
 - Flow Accuracy test
- ☐ Integrated Suction Regulator tests (if equipped)
 - Gauge Accuracy
 - Flow Test
 - Regulation Test
 - Vacuum Bleed Test
 - Vacuum Leak Test
- ☐ Perform Vaporizer Backpressure test
- ☐ Flush Flow test
- ☐ Calibrating the Airway Module
- ☐ System checkout
 - Full Test
 - Low P Leak (machines with SCGO)
 - Low P Leak (machines with ACGO)
- ☐ Alarm tests
- ☐ Power failure test
- ☐ Electrical Safety Checks
 - Preparation
 - Ground Resistance Check
 - Chassis Leakage Current
 - Additional Electrical Test Steps
- ☐ Final Machine Checks